

Weekly Report

Yuxin Ma

2017.10.30 - 2017.11.05

1 Projects

1.1 DeepVis Review

- Some missing scatterplots in the original test dataset are added.
- Based on the new test dataset, the new tSNE projection result is re-generated (Figure 1).
- The data for a new user study has been generated. The next step is to generate corresponding webpages for performing the user study.



Figure 1: The new tSNE projection result.

1.2 Predictive Traffic Flow Analysis

- On Monday we have discussed the models for producing prediction results. The choices are listed below:
 - ARIMA (Autoregressive Integrated Moving Average model)
 - SARIMA (Seasonal ARIMA)
 - K-NN

We planned to generate a set of prediction results before next Thursday. Then we can start visualization design and interface implementation.

- I discussed with Chentao Ye about joining my group. He is now learning web development and going to implement the web interface framework before next Thursday.

1.3 Misc.

- I Helped Kaiyuan with the survey paper on “enhancement of statistical charts”, mostly on how to find related papers.

Table 1: Plan for the Next Week

Target Date	Project	Progress	Problems
11.12	DeepVis Revision	Test dataset restored	New evaluation results
2018.01.15	Predictive Traffic Network Flow Analysis	Implementing prediction models	Potential visual design